

# Renjith Madhavan

C: (312)-479-7165

Email: renjithmadhavan@gmail.com

Over 7+ years of experience with strong analytical and technical skills. Experience in large data warehouse projects combined with excellent communication and interpersonal skills. I have done several hands-on projects in Data Science using advanced Machine Learning algorithms and techniques and have strong fundamentals in Statistics and Math and know how to apply scientific concepts in a practical setting.

## Education

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| • Masters in Data Science                      | Elmhurst College, IL | 2015-2017 |
| • Bachelors – Computer Science And Engineering | CUSAT, India         | 2001-2005 |

## Key Skills

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|------------------------------------|---|
| • Statistical Analysis             | • Python  |
| • R + key data mining packages     | • Microsoft Azure   |
| • Tableau                          | • ggplot2   |
| • matplotlib                       | • SQL over large data sets  |
| • Data Validation                  | • Automation/scripting  |
| • Dataware House /ETL skills       | • Reporting skills  |
| • Big Data / Hadoop Experience     | • Critical Thinking   |
| • Netezza/Oracle/Sql server/MySQL  | • Apache Spark  |
| • AWS/Google Cloud/Microsoft Azure | • Machine Learning (classification, regression and clustering techniques) |

## Certifications

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| ○ Time Series Analysis                 | Data Camp   |
| ○ Deep Learning Course                 | University of San Francisco (Jeremy Howard) (Training/no-certificate) |
| ○ Tackling the Challenges of Big Data  | MIT-CSAIL   |
| ○ Intermediate Python For Data Science | Data Camp   |
| ○ Intermediate R                       | Data Camp   |
| ○ Oracle Certified Professional        | Oracle  |
| ○ IBM Pure Data System for Analytics   | IBM   |

## Professional Experience Summary

<u>Company Name</u>	<u>Clients</u>	<u>Domain</u>	<u>Role</u>	<u>Year</u>
▪ Epsilon	Bank Of America	Banking	Senior DBA	2014/Dec - present
▪ Accenture	Astellas	Pharma	Senior DBA	2014/Jan – 2014/Dec
▪ Accenture	BestBuy	Retail	DBA	2011/Jul – 2014/Jan
▪ IL&FS	Internal	Finance	DBA	2010/Oct – 2011/Jun
▪ Posidex	Confidential	Finance	DBA	2009/May-2010/Sep

## Data Science Projects

### Elmhurst College, Graduate Student in Data Science

**Project:** Credit Risk Modeling - Loan Data

**Team Size:** Individual

**Programming:** R

**Details:** Analyzed and studied loan dataset for an end to end Data Science project to do Credit Risk Modeling and completed model scoring using 2 different models, compared the results and produced detailed reports.

- Followed CRISP-DM for end to end project flow.
- Qualitative Analysis
- Identified Outliers
- Built models using logistic regression and decision trees.
- ROC curves and Confusion Matrix

**Project:** Product Recommendation using Collaborative Filtering

**Team Size:** Individual

**Programming:** Python 3.6

**Details:** Worked on Movie-Lens-100K dataset and used collaborative filtering techniques for movie recommendations. Used Python 3.6 for programming.

- Used Pandas and Numpy for data engineering
- Item Based Collaborative Filtering
- K – Nearest neighbors used
- Developed models using Matrix Factorization

### Elmhurst College, Graduate Student in Data Science

**Project:** Data Science Bowl - 2017

**Team Size:** 2

**Programming:** Python

**Details:** Analyzed and studied high-resolution lung scans to detect cancerous nodules.

- Used pre-trained neural networks
- Experimented with convolutional neural networks using Theano and Tensorflow
- Experimented with Microsoft CNTK
- Reached Kaggle top 18%

## Professional Experience

<b>Database Administrator</b>	<b>2014 – Present</b>	<b>Epsilon, Irving, TX</b>
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**Client:** Bank of America

**Role:** Senior Database Administrator

**Team Size:** 6

**Details:** Responsible for managing Hadoop Clusters and IBM pure data systems for analytics appliances which process massive amount of big data. Help data scientists and data analysts in running their models by tuning and optimizing database systems for efficiency. Maximize pure data systems for data analytic usage.

**Innovation:** Designed and implemented in house Disaster Recovery solution using shell script.

<b>Senior Software Engineer</b>	<b>Jul 2011 – Dec 2014</b>	<b>Accenture, Chicago, IL</b>
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**Client:** Astellas Pharmaceuticals, Northbrook, IL  
**Role:** Data Architect  
**Team Size:** 15

**Details:** Responsible for performing technical data lineage, documenting detailed data flows, calculations, manual touch points, control point areas, and feeds used to source the data. Liaison between Development team members and Business stakeholders. Capture and understand the requirements from users and translate the users' requirements into functional specifications in a Data Warehouse/BI application environment. Design a solution that adheres to the business intelligence architecture principles, standards and guidelines. Unit, System and UAT tested expected results in all phases.

**Innovation:** Designed and implemented process to mask sensitive PII data.

**Client:** BestBuy, Minneapolis  
**Role:** Senior Database Administrator  
**Team Size:** 25

**Details:** Responsible for handling business critical transactional databases of large volume. Senior database administrator for more than 1000 databases on UNIX platform which were distributed geographically. Responsible for tuning SQL queries and provide better alternatives. Migrate and upgrade legacy servers, storage and databases without interruption to normal business operations.

#### **Reference**

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Available upon request.